Practitioner's Docket No. 56954 (70207) Page 1 of 6

TRANSMITTAL LETTER TO THE UNITED STATES ELECTED OFFICE (EO/US) (ENTRY INTO U.S. NATIONAL PHASE UNDER CHAPTER II)

PCT/US03/07527	Filed:	March 1	1, 2003

INTERNATIONAL APPLICATION NO:

INTERNATIONAL FILING DATE

60/363,179

Filed: March 11, 2002

PRIORITY

DATE CLAIMED

DETECTION AND QUANTIFICATION OF MODIFIED PROTEINS

TITLE OF INVENTION

Steven P. GYGI and Peng JUNMIN

APPLICANT(S)

Mail Stop PCT Atten: EO/US

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as **EXPRESS MAIL Label No.: EV 519064531 US** in an envelope addressed to: BOX PCT, ATTN: EO/US, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: September 3, 2004

Helen Murray Tarb

NOTE: To avoid abandonment of the application, the applicant shall furnish to the USPTO, not later than 20 months from the priority date: (1) a copy of the international application, unless it has been previously communicated by the International Bureau or unless it was originally filed in the USPTO; and (2) the basic national fee (see 37 C.F.R. Section 1.492(a)). The 30-month time limit may not be extended. 37 C.F.R. Section 1.495.

WARNING: Where the items are those which can be submitted to complete the entry of the international application into the national phase are subsequent to 30 months from the priority date the application is still considered to be in the international state and if mailing procedures are utilized to obtain a date the express mail procedure of 37 C.F.R. Section1.10 must be used (since international application papers are not covered by an ordinary certificate of mailing - See 37 C.F.R. Section 1.8.

NOTE: Documents and fees must be clearly identified as a submission to enter the national state under 35 USC 371 otherwise the submission will be considered as being made under 35 U.S.C. Section 111. 37 C.F.R. Section 1.494(f).

- 1. Applicant herewith submits to the United States Elected Office (EO/US) the following items under 35 U.S.C. 371:
 - [X] This express request to immediately begin national examination procedures (35 U.S.C. Section 371(f)).

[X] The U.S. National Fee (35 U.S.C. Section 371(c)(1)) and other fees (37 C.F.R. Section 1.492) as indicated below:2.Fees

DT04 Rec'd PCT/PTO 0 3 SEP 2004

CLAIMS	(1) FOR	(2) NUMBER	(3) NUMBER	(4) RATE	(5) CALCULA-
FEE	,	FILED	EXTRA		TIONS
[]*	TOTAL CLAIMS	44 - 20 =	24	x \$ 18.00 =	\$ 432.00
	INDEPENDENT	11 - 3 =	8	x \$86.00 =	\$ 688.00
	CLAIMS				
	MULTIPLE DEPEN	IDENT CLAIM(S) (if	applicable) + \$290	0.00	\$ 290.00
ASIC FEE**	[L] 0.5 0	WAS INTERNATION	AL PRELIMINAF	RY EXAMINATION	
	AUTHORITY Where an Intermedianal maximinant examination for as set fouth in Section				
	Where an International preliminary examination fee as set forth in Section 1.482 has been paid on the international application to the U.S. PTO:				
				tion report states that the	
				strial activity, as defined	
		to (4) have been satisf			
		the national stage (37 (
			•	-(-)(-))	
	[X] a	and the above requirem	ents are not met (3	7 C.F.R. Section	
ŀ				*	
	[] U.S. PTO	WAS NOT INTERNA	TIONAL PRELIM	INARY	
	EXAMINATION AUTHORITY				
		international prelimina			
	in Section 1.482 has been paid to the U.S. PTO, and payment of an				
	international search fee as set forth in Section 1.445(a)(2) to the U.S.				
	PTO:				
1		nas been paid (37 C.F.F			
		nas not been paid (37 C			
		where a search report o			
				ntent Office (37 C.F.R.	
	Section 1.492(a)(5))	\$920.0	U		İ
	Total of ab	ove Calculations			\$ 2,140.00
SMALL			if applicable. Affid	avit must be filed. (note	
ENTITY	37 C.F.R. Sections 1				
		30.00 for furnishing the	English Translation	on/Declaration after	\$ 130.00
	filing of this applicat		Ü		
	Total Natio				\$ 2,270.00
	Fee for recording the	enclosed assignment of	locument \$40.00 (3	37 C.F.R. 1.21(h)). (See	
		attached "ASSIGNME			\$
TOTAL	Total Fees				\$ 2,270.00
TOTAL	-		NT COVER SHEE	.1".	\$ 2,270.00

i. [X] Check in the amount of \$2,270.00 to cover the above fees is enclosed.

ii. [] Please charge Account No. in the amount of \$

** WARNING: "To avoid abandonment of the application the applicant shall furnish to the United States Patent and Trademark Office not later than the expiration of 30 months from the priority date: * * * (2) the basic national fee (see Section 1.492(a)). The 30-month time limit may not be extended." 37 C.F.R. Section 1.495(b).

WARNING: If the translation of the international application and/or the oath or declaration have not been submitted by the applicant within thirty (30) months from the priority date, such requirements may be met within a time period set by the Office. 37 C.F.R. Section 1.495(b)(2). The payment of the surcharge set forth in Section 1.492(e) is required as a condition for accepting the oath or declaration later than thirty (30) months after the priority date. The payment of the processing fee set forth in Section 1.492(f) is required for acceptance of an English translation later than thirty (30) months after the priority date. Failure to comply with these requirements will result in abandonment of the application. The provisions of Section 1.136 apply to the period which is set. Notice of Jan. 3, 1993, 1147 O.G. 29 to 40.

2.	[X]	A copy of the International application as filed (35 U.S.C. Section 371(c)(2)):
		DT04 Rec'd PCT/PTO 0 3 SEP 2004

NOTE: Section 1.495 (b) was amended to require that the basic national fee and a copy of the international application must be filed with the Office by 30 months from the priority date to avoid abandonment "The International Bureau normally provides the copy of the international application to the Office in accordance with PCT Article 20. At the same time, the International Bureau notifies applicant of the communication to the Office. In accordance with PCT Rule 47.1, that notice shall be accepted by all designated offices as conclusive evidence that the communication has duly taken place. Thus, if the applicant desires to enter the national stage, the applicant normally need only check to be sure the notice from the International Bureau has been received and then pay the basic national fee by 30 months from the priority date." Notice of Jan. 7, 1993, 1147 O.G. 29 to 40, at 35-36. See item 14c below.

	a. b.	[X] []	is transmitted herewith. is not required, as the application was filed with the United States Receiving Office.		
	c.	[] i. ii.	has been transmitted [] by the International Bureau. [] by applicant on		
3.	[X] a. b. c. d.		ation of the International application into the English language (35 U.S.C. 371(c)(2)): is transmitted herewith. is not required as the application was filed in English. was previously transmitted by applicant on Date will follow.		
4.	[X]	Amendments to the claims of the International application under PCT Article 19 (35 U.S.C. Section 371(c)(3)):			
nay not Article 1 cases, fil	ng practice be extende 9 amendm	e that PCT ed. The Not ents. Appli	ary 7, 1993 points out that 37 C.F.R. Section 1.495(a) was amended to clarify the existing and Article 19 amendments must be submitted by 30 months from the priority date and this deadline ice further advises that: "The failure to do so will not result in loss of the subject matter of the PCT cant may submit that subject matter in a preliminary amendment filed under Section 1.121. In many ader Section 1.121 is preferable since grammatical or idiomatic errors may be corrected." 1147		
	a. b.	[] [] i. ii.	are transmitted herewith. have been transmitted [] by the International Bureau. [] by applicant on .		
	с.	[X] i. ii.	have not been transmitted as [X] applicant chose not to make amendments under PCT Article 19. [] the time limit for the submission of amendments has not yet expired. The amendments or a statement that amendments have not been made will be transmitted before the expiration of the time limit under PCT Rule 46.1.		
5.	[X]	A transl 371(c)(3	ation of the amendments to the claims under PCT Article 19 (38 U.S.C. Section		
	a. b. c.	[] [] [X]	is transmitted herewith. is not required as the amendments were made in the English language. has not been transmitted for reasons indicated at point 5(c) above.		
5.	[X]	А сору	of the international examination report.		

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		[X] is not required as the application was filed with the United States Receiving Office.
7.	[] a. b.	A translation of the relevant portions of the international preliminary examination report [] is transmitted herewith. [X] is not required as the annexes are in the English language.
8.	[X] a.	An oath or declaration of the inventor (35 U.S.C. Section 371(c)(4)) complying with 35 U.S.C. 115 [] was previously submitted by applicant on
	b.	 is submitted herewith, and such oath or declaration i. [] is attached to the application. ii. [] identifies the application and any amendments under PCT Article 19 that were transmitted as stated in points 3(b) or 3(c) and 5(b); and states that they were reviewed by the inventor as required by 37 C.F.R. Section 1.70.
	c.	[X] will follow.
Other	docume	nt(s) or information included:
9.	[X] a. b. c.	An International Search Report [X] is transmitted herewith. [] has been transmitted by the International Bureau. [] is not required, as the application was searched by the United States International
	d. e.	Searching Authority. [] will be transmitted promptly upon request. [] has been submitted by applicant on Date
10.	[X] a. b. c.	An Information Disclosure Statement under 37 C.F.R. Sections 1.97 and 1.98: [X] is transmitted herewith. Also transmitted herewith is/are: [X] Form PTO-1449 (PTO/SB/08A and 08B). [X] Copies of citations listed. [] will be transmitted within THREE MONTHS of the date of submission of requirements under 35 U.S.C. Sections 371(c). [] was previously submitted by applicant on Date
	d.	[X] Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.
11.	[X]	Copy of the assignment document as filed in the corresponding PCT application is transmitted herewith.

A separate [] "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or[] FORM PTO 1595 is also attached.

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10/506877 12. Additional documents: [X]DT04 Rec'd PCT/PTO 0 3 SEP 2004 Copy of request a. PCTRO/102 b. [X][X]PCT/RO/105 c. d. [X] PCT/RO/106 Request for a one-month extension e. [X] Response to Invitation to Correct Defects f. [X] PCT/ISA/202 Xg. h. [X]PCT/ISA/220 i. International Publication No. WO 2003/078962 [X]Specification, claims and drawings i. [] Front page only ii. **PCT/IB/301** j. [X] k. [X] PCT/IB/304 1. [X] PCT/IB/308 PCT/IB/332 m. [X][X]Letter Accompanying Chapter II Demand n. o. [X] PCT/IPEA/402 EPO Form 1201 p.

AUTHORIZATION TO CHARGE ADDITIONAL FEES

WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges if extra claims are authorized.

before 30 months from any claimed priority date.

The above checked items are being transmitted

after 30 months.

13.

[X]

a.

b.

[X]

[]

NOTE: "A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under Section 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in

Section 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. Section 1.136(a) (3) TOTAL OF COLORS SEP 2004

NOTE: "Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. Section 1.26(a).

[X] The Commissioner is hereby authorized to charge the following additional fees that may be required by this paper and during the entire pendency of this application to Account No. <u>04-1105</u>.

[X] 37 C.F.R. Section 1.492(a)(1), (2), (3), and (4) (filing fees)

WARNING: Because failure to pay the national fee within 30 months without extension (37 C.F.R. Section 1.495(b)(2)) results in abandonment of the application, it would be best to always check the above box.

[X] 37 C.F.R. Section 1.492(b), (c) and (d) (presentation of extra claims)

NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 C.F.R. Section 1.492(d)), it might be best not to authorize the PTO to charge additional claim fees, except possible when dealing with amendments after final action.

- [X] 37 C.F.R. Section 1.17 (application processing fees)
- [X] 37 C.F.R. Section 1.17(a)(1)-(5)(extension fees pursuant to Section 1.136(a).
- [] 37 C.F.R. Section 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. Section 1.311(b))

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 C.F.R. Section 1.311(b).

NOTE: 37 C.F.R. 1.28(b) requires "Notification of any change in loss of entitlement to small entity status must be filed in the application... prior to paying, or at the time of paying... issue fee." From the wording of 37 C.F.R. Section 1.28(b): (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

[] 37 C.F.R. Section 1.492(e) and (f) (surcharge fees for filing the declaration and/or filing an English translation of an International Application later than 30 months after the priority date).

_

Respectfully submitted

Date: September 3, 2004

George W Neuner (Reg. No. 26,964)

EDWARDS & ANGELL, LLP

P.O. Box 55874

Boston, MA 02205 Tel: 617-439-4444

Fax: 617-439-4170

Customer No: 21,874

BOS2_457224.1

Docket No. 56954 PCT (70207)

IN THE UNITED STATES PATENT AND TRADEMARK RECEIVING OFFICE FOR THE PATENT COOPERATION TREATY

APPLICANT:

President and Fellows of Harvard College

INT. APPLN. NO.:

PCT/US03/07527

FILED:

11 March 2003

FOR:

DETECTION AND QUANTIFICATION OF MODIFIED

PROTEINS

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I hereby certify that this correspondence is being deposited with the United States Postal Service, as Express Mail Label No. EV 343731031 US, postage prepaid, in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: June 4, 2003

Helen Murray Tarbi

Mail Stop PCT COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, VA 22313-1450

Attn: RO/US

Elnora Rivera

RESPONSE TO INVITATION TO CORRECT DEFECTS IN THE INTERNATIONAL APPLICATION

Applicants have received the Invitation to Correct Defects in the International Application mailed by the PCT Receiving Office on 11 April 2003 for the above-referenced International Application. An Extension of Time was requested on 9 May 2003 to extend the date for responding to the Invitation to 11 June 2003. Accordingly, Applicants believe this Response is timely filed.

Accordingly, in response to the Invitation to Correct Defects, enclosed please find:

- 1. A copy of the Invitation to Correct Defects;
- 2. A Power of Attorney executed by the Applicant and inventors, and
- 3. Thirteen (13) sheets of formal drawings.

Attorney Docket No. 56954 PCT (70207) Int. Appl. No. PCT/US03/07527 Response to Invitation to Correct Defects Page 2 of 2

Please charge any fees that may be due in connection with this matter to Deposit Account No. 04-1105.

Please contact the undersigned agent if any additional information is needed.

Respectfully submitted,

Date: June 4, 2003

Dianne M. Rees, Ph.D.

Reg. 45,281

Edwards & Angell, LLP

P.O. Box 9169 Boston, MA 02209 (617) 439-4444

Customer No. 21874

BOS2_334723.1



Docket No. 56954 PCT (70207)

IN THE UNITED STATES RECEIVING OFFICE FOR THE PATENT **COOPERATION TREATY**

APPLICANT:

President and Fellows of Harvard College

INVENTOR:

Gygi, et al.

INT. APPLN. NO.:

PCT/US03/07527

INT. FILING DATE:

11 March 2003

PRIORITY FILING DATE: 11 March 2002

FOR:

DETECTION AND QUANTIFICATION OF MODIFIED

PROTEINS

MAIL STOP PCT COMMISSIONER FOR PATENTS P.O. BOX 1450 ALEXANDRIA, VA 22313-1450

Elnora Rivera

CERTIFICATE OF FACSIMILE

I hereby certify that this Request for One-Month Extension of Time to Respond to the Invitation to Correct Defects is being sent via facsimile on 9 May 2003 addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450; Attn: Elnora Rivera at fax no. (703) 305-3230-

Dear Ms. Rivera:

REQUEST FOR A ONE-MONTH EXTENSION OF TIME TO RESPOND TO THE INVITATION TO CORRECT DEFECTS IN THE INTERNATIONAL APPLICATION

An Invitation to Correct Defects was issued on 11 April 2003 for the above-referenced international application.

Applicants hereby request an additional one-month extension of time to file a response to said invitation, i.e. to extend the due date to 11 June 2003.

Applicants believe that no fee is due with the filing of this response; however, if for



any reason fees are necessary, you are hereby authorized and requested to charge Deposit Account No. 04-1105.

Please contact the undersigned agent immediately by facsimile or telephone if any additional information is needed.

Respectfully submitted,

Dianne M. Rees, Ph.D. (Reg. No.45,281)

EDWARDS & ANGELL, LLP

P.O. Box 9169

Boston, MA 02209

Tel: (617) 439-4444

Fax: (617) 439-4170

BOS2_334912.1

Date: 9 May 2003

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